

### ABSTRACT OF THE DISCLOSURE

To provide a switching regulator with a small packaging area.

A switching regulator according to the present invention includes: a first terminal for inputting an output voltage of the switching regulator; a reference voltage source for generating a reference voltage; a voltage divider circuit for dividing the output voltage of the switching regulator; an error amplifier for inputting the reference voltage and an output signal of the voltage divider circuit; a first circuit block having a resistance, for outputting a signal that varies depending on a resistance value of the resistance; a second circuit block having a square wave oscillator, for outputting a signal based on an output signal of the square wave oscillator and an output signal of the first circuit block; a third circuit block having a logic circuit for receiving the output signal of the square wave oscillator and the output signal of the second circuit block to output a signal, and a circuit for outputting an output signal, which is controlled based on an output of the logic circuit; and a comparator for receiving an output of the error amplifier and the output signal of the third circuit block to output a signal.